

REMARKS

By this submission previously pending claims 1 and 12 are amended, and claims 2, 12 and 13 remain pending. Pending claims 3-11 and 14-24 are reported in the outstanding action as being allowed.

No new matter is introduced by the now submitted amendments. It is requested in view of the submitted amendments and following discussions that all currently outstanding rejections be reconsidered and not repeated in any further action issued for this application.

Claim Rejections – 35 USC §102

Claims 1, 2, 12 and 13 are reported rejected under 35 USC §102(e) as being anticipated by U.S. Patent No. 6,887,339 (Goodman et al.). These reported rejections are submitted as being overcome in view of the following discussions and also by now submitted amendments further clarifying recited subject matter for independent claims 1 and 12 from which all other outstanding anticipation rejected claims depend.

Attention now exclusively is invited to rejected independent claims 1 and 12, because if independent claims rejected as being anticipated subsequently are amended to recite clarified subject matter not taught or inherent from cited prior patent(s) or publication(s) all of the independent claims and their dependent claims overcome the anticipation rejections.¹

¹ These conclusions arise from at least the requirement that “for [there to be] anticipation under 35 USC §102, the reference must teach every aspect of the claimed invention explicitly or impliedly.” (Emphasis added, MPEP §706.02) As to dependent claims, 35 USC §112, paragraph 4, directs that a “claim in dependent form shall be construed to incorporate by reference all the limitations of the base claim to which it refers.” Thus, rejected dependent claims include every limitation recited in their base independent claim that are not disclosed or inherent in a relied on reference.

To clarify recited subject matter, each of independent claims 1 and 12 now are amended to cover “a resonantly tunable circuit formed of a variable capacitor and inductor in a series resonance configuration” and a ferrite core transformer with the resonantly tunable circuit recited as being “connected to one end of a winding of said ferrite core transformer.” An example of one embodiment covered by claims 1 and 12 is schematically shown in Fig. 1 of the application specification where one end of a ferrite core transformer winding 14 is connected to series connected variable capacitor C and inductor L. Accordingly, no new matter is added by the submitted amendments.

Turning to the reported rejections, it is stated in the Office action that Goodman et al. “discloses a matching network for coupling an RF power supply to an RF antenna in a plasma generator comprising:

- a resonantly tunable circuit formed of a variable capacitor (controllable variable capacitance) and inductor (L shunt) in a series resonance configuration (see Figure 13B, See Col. 11, 35-67);
- a ferrite core transformer coupled to the resonantly tunable circuit (See Col. 11, lines 35-67).”

As a first matter, the Goodman et al. Fig. 13B is not discussed at col. 11, but instead is discussed at col. 15, line 57 et seq. Further, no ferrite core transformer or other type transformer is discussed in these Goodman et al. disclosures at col. 15, line 57 et seq. A ferrite core transformer is discussed at col. 11, lines 39-43:

The matching network 124 [see Fig. 7] may include a network of inductors and capacitors. It may also contain a ferrite-core transformer with an appropriate turns ratio. The ferrite-core transformer is advantageous because it provides isolation to ground.

This discussion is without specifics as to any arrangement of at least "inductors and capacitors."

These Goodman et al. written disclosure and drawing failures irrefutably establish that Goodman et al. neither teach nor imply the claimed subject matter for a matching network having at least a series connected variable capacitor and inductor that is connected to one end of a winding of a ferrite core transformer. In this aspect at least (not conceding that others also exist), independent claims 1 and 12 are submitted as reciting structure not read on by any Goodman et al. explicit or implied disclosures. Additionally, the rejected dependent claims also are submitted as overcoming reported anticipation rejections in that they depend from either independent claim 1 of 12.

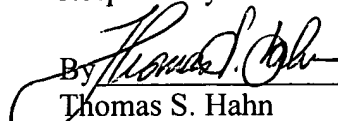
CONCLUSION

It is submitted that all pending claims are in condition for allowance in light of the combination of the reported claim allowances, now submitted claim amendments and the above discussions directed to all reported rejections. Accordingly, issuance of a Notice of Allowance reporting all pending claims allowed is requested.

Should the Examiner have any question, request or suggestion, he is invited to contact the undersigned attorney at the telephone number indicated below.

Dated: *December 11, 2006*

Respectfully submitted,

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